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SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Sin J. Lee Examiner #: 7606 Date: 6-13-06
Art Unit: 1752 Phone Number 30 2-1333 Serial Number: 10/815,398
Mail Box and Bldg/Room Location: 9C15 Results Format Preferred (circle) PAPER DISK E-MAIL
Rem.

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc., if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

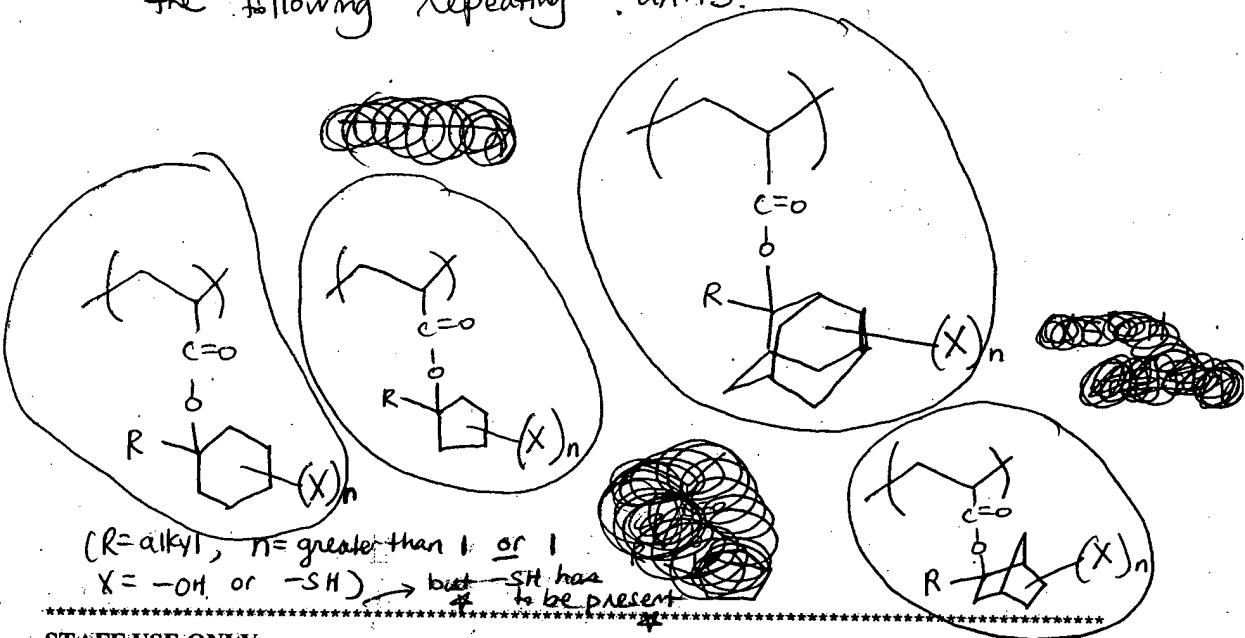
Title of Invention: Plz. Lee B.b.

Inventors (please provide full names):

Earliest Priority Filing Date:

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

— Please search for the polymer having ^ one of
the following repeating units.



STAFF USE ONLY

Searcher: Ed

Type of Search

Searcher Phone #:

NA Sequence (#)

Vendors and cost where applicable

Searcher Location:

AA Sequence (#)

STN

Date Searcher Picked Up:

Structure (#)

Dialog

Date Completed: 6-15-06

Bibliographic

Questel/Orbit

Searcher Prep & Review Time:

Litigation

Dr. Link

Clerical Prep Time:

Fulltext

Lexis/Nexis

Online Time:

Patent Family

Sequence Systems

PTO-1590 (8-01)

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Other (specify)



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BIBDATASHEET

B6 Data Sheet

CONFIRMATION NO. 7576

SERIAL NUMBER 10/815,398	FILING DATE 03/31/2004 RULE	CLASS 430	GROUP ART UNIT 1752	ATTORNEY DOCKET NO. 42P18694
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APPLICANTS

Wang Yueh, Portland, OR;

Ernisso S. Putna, Beaverton, OR;

** CONTINUING DATA *****

None S JL

** FOREIGN APPLICATIONS *****

None S JL

IF REQUIRED, FOREIGN FILING LICENSE GRANTED

** 06/10/2004

Foreign Priority claimed	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no	STATE OR COUNTRY OR	SHEETS DRAWING 1	TOTAL CLAIMS 30	INDEPENDENT CLAIMS 4
35 USC 119 (a-d) conditions met	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no <input type="checkbox"/> filed after Allowance	S JL Initials			
Verified and Acknowledged					

ADDRESS

08791

BLAKELY SOKOLOFF TAYLOR & ZAFMAN
 12400 WILSHIRE BOULEVARD
 SEVENTH FLOOR
 LOS ANGELES, CA
 90025-1030

TITLE

Resist compounds including acid labile groups having hydrophilic groups attached thereto

FILING FEE	FEES: Authority has been given in Paper No. _____ to charge/credit DEPOSIT ACCOUNT No. _____ for following:	<input type="checkbox"/> All Fees <input type="checkbox"/> 1.16 Fees (Filing) <input type="checkbox"/> 1.17 Fees (Processing Ext. of time) <input checked="" type="checkbox"/> 1.18 Fees (Issue)
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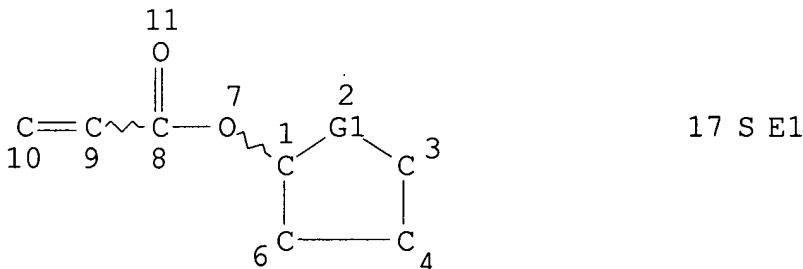
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L3 STR L1
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L5 STR L3
L6 1 S L5
L7 12 S L5 FUL
SAV L7 LEE398/A

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L8 0 S L7

FILE 'ZCA' ENTERED AT 15:03:39 ON 15 JUN 2006
L9 10 S L7

FILE 'REGISTRY' ENTERED AT 15:04:06 ON 15 JUN 2006

=> d 17 que stat
L5 STR



REP G1=(0-3) C
NODE ATTRIBUTES:
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CONNECT IS E1 RC AT 17

DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

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RING(S) ARE ISOLATED OR EMBEDDED
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STEREO ATTRIBUTES: NONE

L7 12 SEA FILE=REGISTRY SSS FUL L5

100.0% PROCESSED 4323 ITERATIONS

12 ANSWERS

SEARCH TIME: 00.00.01

=> file zca

FILE 'ZCA' ENTERED AT 15:04:20 ON 15 JUN 2006

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=> d 19 1-10 cbib abs hitstr hitrn

L9 ANSWER 1 OF 10 ZCA COPYRIGHT 2006 ACS on STN

144:156726 Pharmaceutical compositions from ethnobotanicals. Shimasaki,
Craig D.; Ojwang, Joshua O. (USA). U.S. Pat. Appl. Publ. US
2006020029 A1 20060126, 24 pp. (English). CODEN: USXXCO.
APPLICATION: US 2005-157129 20050620. PRIORITY: US
2004-2004/PV585117 20040702.

AB This invention relates to the field of drug discovery.
Specifically, it describes a method ("Inverted Drug Screening" or
"IDS") of identifying therapeutics from ethnobotanical (EB) preps.
by repeatedly fractionating and testing fractions from EB sources.
One aspect of the invention relates to quinic acid derivs. (e.g.,
derivs. of 3,5-dicaffeoylquinic acid) for the treatment of
respiratory syncytial virus (RSV) infection.

IT 874183-60-5

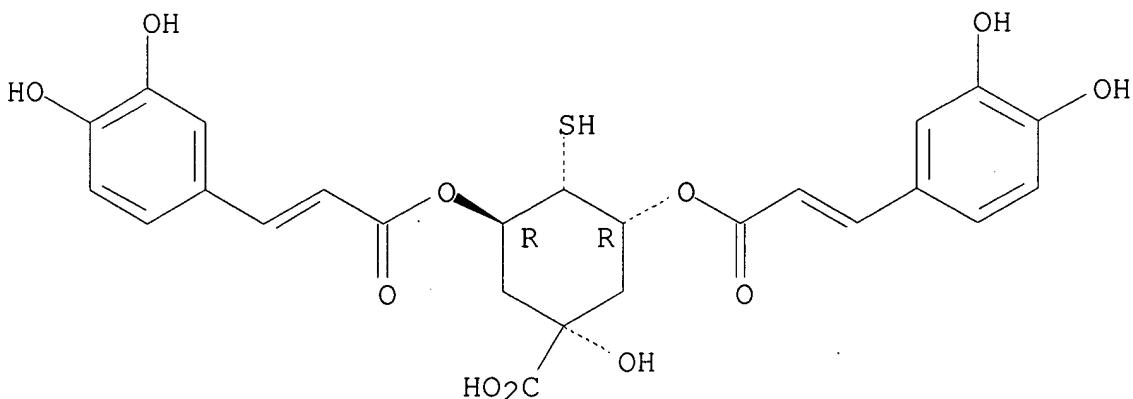
(pharmaceutical compns. from ethnobotanicals)

RN 874183-60-5 ZCA

CN Cyclohexanecarboxylic acid, 3,5-bis[[3-(3,4-dihydroxyphenyl)-1-oxo-2-
propenyl]oxy]-1-hydroxy-4-mercaptop-, (1.alpha.,3.alpha.,4.alpha.,5.b
eta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry unknown.



IT **874183-60-5**
(pharmaceutical compns. from ethnobotanicals)

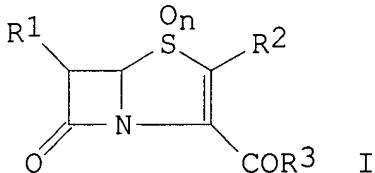
L9 ANSWER 2 OF 10 ZCA COPYRIGHT 2006 ACS on STN

121:230578 (5S)-penem derivatives, their preparation and use.

Southgate, Robert; Coulton, Steven; Smale, Terence Charles; Allsop, Aileen Edwina; McLean, Sara Denise (Smithkline Beecham PLC, UK).
PCT Int. Appl. WO 9403168 A1 19940217, 64 pp. DESIGNATED STATES: W:
AT, AU, BB, BG, BR, BY, CA, CH, CZ, DE, DK, ES, FI, GB, HU, JP, KP,
KR, KZ, LK, LU, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SK,
UA, US, VN; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FR,
GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG.
(English). CODEN: PIXXD2. APPLICATION: WO 1993-GB1589 19930727.

PRIORITY: GB 1992-16102 19920729.

GI



AB Title compds. I (R¹ = H, , R³CO wherein R³ = ester- or amide-forming group stable toward in vivo hydrolysis; R² = H, substituent; n = 0,1) useful as an inhibitor of the bacterial enzyme leader peptidase 1, are prep'd.. 4-Acetoxyazetidin-2-one was added to Na (-)-cis-.beta.-[(carbomenthyl)oxy]vinyl mercaptan to give the (4S)-cis deriv. which was treated with benzyl glyoxylate to give diastereomeric hydroxyacetates, treated with SOCl₂ to give the chloroacetates, treated with Ph₃P to give benzyl [(4S)-(cis-.beta.-carbomenthyl oxyvinylmercapto)2-oxoazetidin-1-yl]-

triphenylphosphoranylideneacetate which was reacted with CF₃CO₂H and O₃ to give I (R₁ = R₂ = H, R₃ = PhCH₂, n = 0) (II). II at 100. μ M inhibited peptidase 1 100%.

IT **72118-54-8**

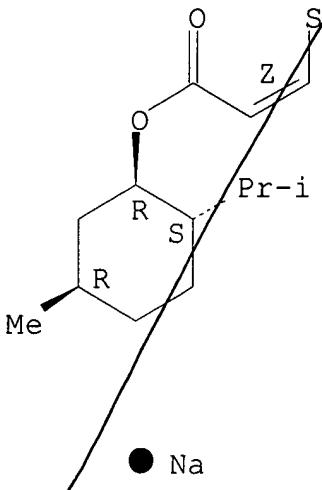
(reaction of, in prepn. of peptidase 1 inhibitors)

RN 72118-54-8 ZCA

CN 2-Propenoic acid, 3-mercaptop-, 5-methyl-2-(1-methylethyl)cyclohexyl ester, sodium salt, [1R-[1.alpha.(Z),2.β.,5.α.]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry as shown.

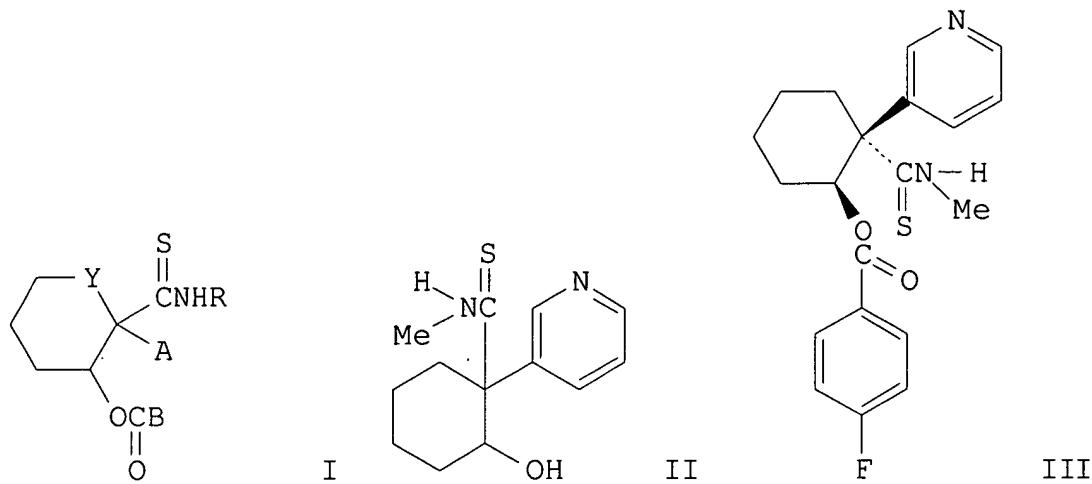
IT **72118-54-8**

(reaction of, in prepn. of peptidase 1 inhibitors)

L9 ANSWER 3 OF 10 ZCA COPYRIGHT 2006 ACS on STN

114:184869 Preparation of thioformamide derivatives. Hart, Terance William; Vacher, Bernard Yvon Jack; Sharp, Brian William (Rhone-Poulenc Sante, Fr.). Eur. Pat. Appl. EP 390693 A1 19901003, 29 pp. DESIGNATED STATES: R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE. (English). CODEN: EPXXDW. APPLICATION: EP 1990-400868 19900330. PRIORITY: GB 1989-7307 19890331; GB 1989-13862 19890616.

GI



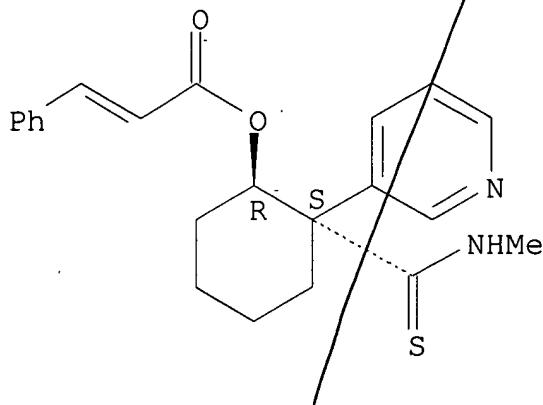
AB Thioformamide derivs. I [R = alkyl; A = (substituted) Ph or heteroaryl; Y = CH₂, CH₂CH₂, or bond; B = (substituted) Ph, pyridyl, furyl, thienyl, C₁-6 alkyl, C₂-6 alkenyl, or cycloalkyl, etc.], useful as vasodilators, were prep'd. For example, a mixt. of (.+-.)-trans-II (prepn. given), 4-FC₆H₄CO₂H, DCC, and 4-dimethylaminopyridine in MeCN was stirred for 18 h at 20.degree.. Subsequent work-up and isolation gave title compd. (.+-.)-trans-III. III at 0.0003 .mu.M reduced K⁺-induced contraction of rat aorta by 90%. The EC₉₀ of 52 other I were detd.

IT **133219-55-3P 133219-63-3P**
(prepn. of, as vasodilator)

RN 133219-55-3 ZCA

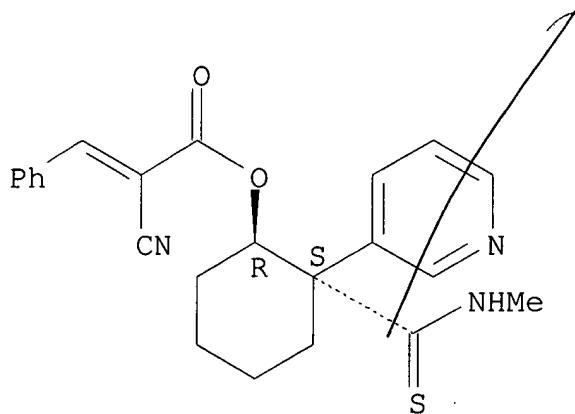
CN 2-Propenoic acid, 3-phenyl-, 2-[(methylamino)thioxomethyl]-2-(3-pyridinyl)cyclohexyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry unknown.



RN 133219-63-3 ZCA
 CN 2-Propenoic acid, 2-cyano-3-phenyl-, 2-[(methylamino)thioxomethyl]-2-(3-pyridinyl)cyclohexyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.
 Double bond geometry unknown.



IT 133219-55-3P 133219-63-3P
 (prepn. of, as vasodilator)

L9 ANSWER 4 OF 10 ZCA COPYRIGHT 2006 ACS on STN
 114:30120 Adhesive composition containing a polymerizable thiocarboxylic acid or a derivative thereof for bonding metals. Kawashima, Mitsunobu; Omura, Ikuo (Kuraray Co., Ltd., Japan). Eur. Pat. Appl. EP 348166 A2 19891227, 24 pp. DESIGNATED STATES: R: DE, FR, GB, IT, NL. (English). CODEN: EPXXDW. APPLICATION: EP 1989-306251 19890620. PRIORITY: JP 1988-152491 19880620; JP 1988-198623 19880808.

AB An adhesive compn. comprises a polymerizable thiocarboxylic acid or deriv., R1C(:X1)R2 (I; X1 = O, S; when X1 = O, R1 = org. group contg. .gtoreq.1 olefinic double bond and R2 = SH; when X1 = S, R1 = org. group and R2 = SH, halo, OR3, SR3; R3 = monovalent org. group; .gtoreq.1 of R1 and R3 has .gtoreq.1 olefinic double bond) and a solvent which is either copolymerizable or noncopolymerizable with I. The compn. is used as a primer or an adhesive and provides a H₂O-resistant, high-strength bond to various metals used in dental and other applications. 11-Methacryloyloxyundecanedithioic acid (II) was prep'd. by (a) reacting 10-bromo-1-decene with Mg and then with CS₂; (b) treating the product of (a) with HBr; and (c) treating the product of (b) with Ag methacrylate. A pure Au plate, a dental Au-Ag-Pd alloy, and a dental Au-Pt-Pd alloy, were reinforced with a 4-mm thick stainless steel plate on the reverse side, and coated with a monolayer of II (from 1 wt. % toluene soln.). An adhesive tape with a 5-mm diam. aperture was applied to the surface to prep.

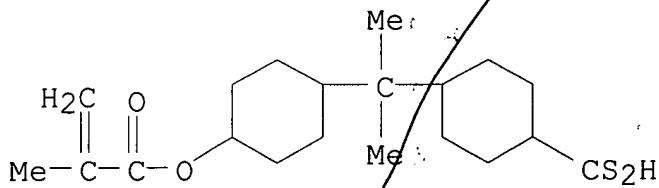
an adherent surface. The end face of a round bar of SUS 304 contg. a paste of dental adhesive (methacrylic acid ester 100, Na sulfinate-benzoyl peroxide-tertiary amine polymn. initiator 3, and silanized inorg. filler 320 wt. parts) was pressed against the adherent surface for bonding. After 1 h, the test piece was immersed in water at 37.degree. for 24 h before tensile bond strength was measured. The bond strength was 360, 378, and 389 kg/cm² to the 3 metals, resp.

IT **131264-84-1**

(as adhesive component of primer, dental gold-based alloys bonding with)

RN 131264-84-1 ZCA

CN 2-Propenoic acid, 2-methyl-, 4-[1-[4-(dithiocarboxy)cyclohexyl]-1-methylethyl]cyclohexyl ester (9CI) (CA INDEX NAME)

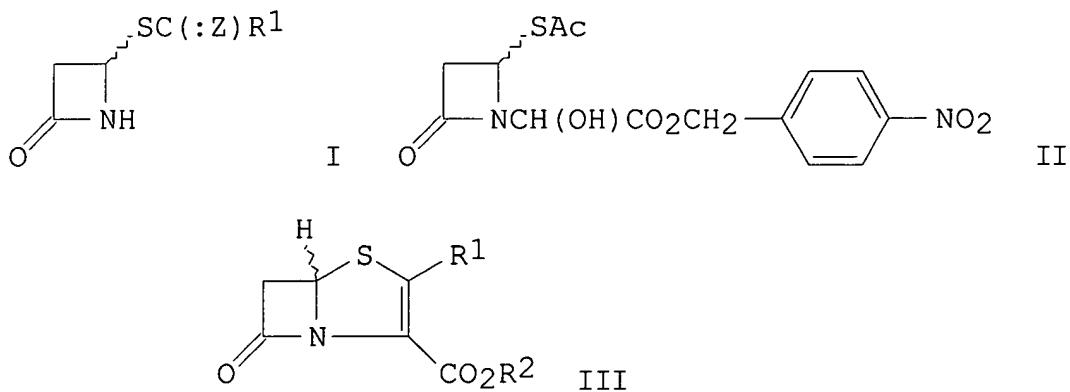
IT **131264-84-1**

(as adhesive component of primer, dental gold-based alloys bonding with)

L9 ANSWER 5 OF 10 ZCA COPYRIGHT 2006 ACS on STN

106:32694 Thioazetidinones. Gosteli, Jacques; Ernst, Ivan; Woodward, Robert Burns (Ciba-Geigy A.-G., Switz.). Pat. Specif. (Aust.) AU 544572 B2 19850606, 209 pp. (English). CODEN: ALXXAP.
APPLICATION: AU 1982-81231 19820309.

GI



AB The title compds. [I; Z = O, S, (un)substituted CH₂; R₁ = H, (un)substituted hydrocarbyl, heterocyclhydrocarbyl, thiohydrocarbyl, (un)protected CO₂H] were prep'd., and in some cases resolved, as 2-penemcarboxylic acid intermediates. Thus, (4RS)-4-acetoxyazetidin-2-one was substituted with MeCOSH to give I (Z = O, R₁ = Me). This was alkylated with EtOCH(OH)CO₂CH₂C₆H₄NO₂-4 to give 1-azetidinylacetic acid II. The latter was converted to the 2-triphenylphosphoranylideneacetic acid in 2 steps, cyclized and debenzylated to give (5RS)-2-methyl-2-penem-3-carboxylic acid (III R₁ = Me, R₂ = H) (IV). Capsules were prep'd. contg. 0.25 g IV from a mixt. contg. IV 250,000, corn starch 50,000, polyvinylpyrrolidone 15,000, Mg stearate 5000 g, and EtOH. In mice, III (R₂ = H, protecting group) were active against Streptococcus at 8 to 50 mg/kg s.c.

IT 105625-34-1P

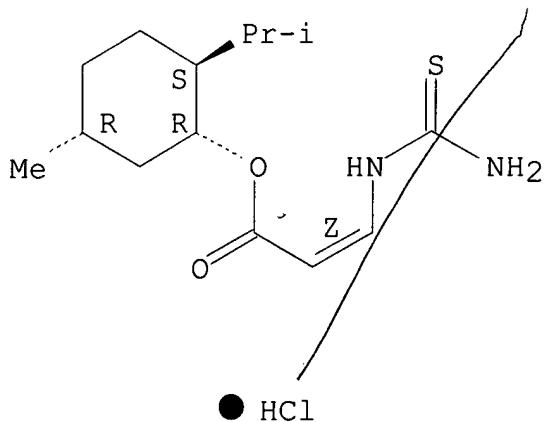
(prepn. and substitution by, of acetoxyazetidinone)

RN 105625-34-1 ZCA

CN 2-Propenoic acid, 3-[(aminothioxomethyl)amino]-,
5-methyl-2-(1-methylethyl)cyclohexyl ester, monohydrochloride,
[1R-[1.alpha.(2Z),2.beta.,5.alpha.]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry as shown.



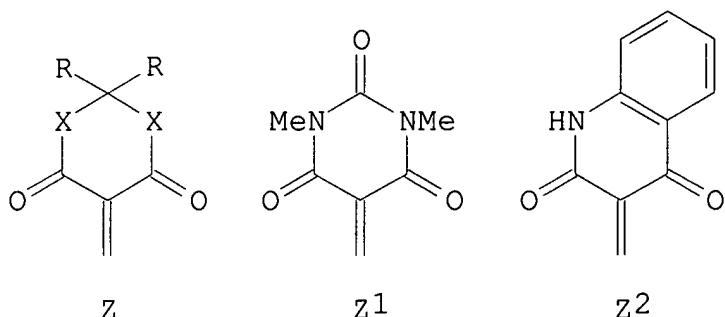
IT 105625-34-1P

(prepn. and substitution by, of acetoxyazetidinone)

L9 ANSWER 6 OF 10 ZCA COPYRIGHT 2006 ACS on STN

92:180132 Thioenol ethers and their use. Ehrhardt, Heinz; Ertel, Hartmut; Mildenberger, Hilmar; Sachse, Burkhard; Hartz, Peter (Hoechst A.-G., Fed. Rep. Ger.). Ger. Offen. DE 2821639 19791122, 35 pp. (German). CODEN: GWXXBX. APPLICATION: DE 1978-2821639 19780518.

GI



AB R2R3C:CR1SR4 [R1 = H, C1-6 aliph., phenyl(C1-3)alkyl, (un)substituted Ph; R2, R3 independently = NO₂, cyano, R₅CO, R₅SO₂ [R₅ = (un)substituted NH₂, C1-5 (un)substituted alkyl, C2-6 alkenyl or alkynyl, (un)substituted Ph], CR₂R₃ = Z (R = H, X = CH₂; R = Me, X = CH₂, O), Z1, Z2; R4 = C1-18 (un)substituted alkyl, C2-8 alkenyl, naphthyl, (un)substituted Ph, (CH₂)_nCO₂R₇ (R₇ = H, C1-18 alkyl; n = 1, 2), CH₂CH₂SH, CHMeCH₂SH], useful as agricultural bactericides and fungicides (extensive data tabulated), were prep'd. by 4 methods. Thus, HSCH₂CO₂Et and EtOCH:C(COMe)CO₂Et were stirred 4 h at

150.degree. to give 84% of a 70:30 (E)-(Z) mixt. of
MeCOC(CO₂Et):CHSCH₂CO₂Et.

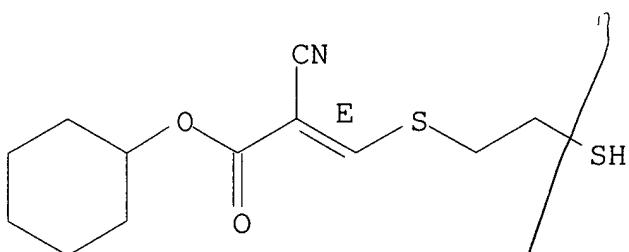
IT **73386-53-5P 73388-28-0P**

(prepn. of)

RN 73386-53-5 ZCA

CN 2-Propenoic acid, 2-cyano-3-[(2-mercaptopethyl)thio]-, cyclohexyl ester, (E)- (9CI) (CA INDEX NAME)

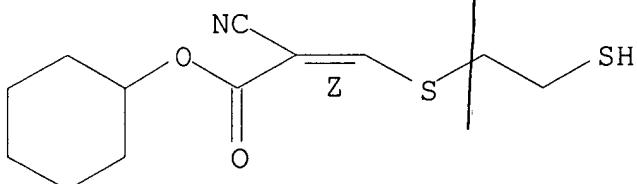
Double bond geometry as shown.



RN 73388-28-0 ZCA

CN 2-Propenoic acid, 2-cyano-3-[(2-mercaptopethyl)thio]-, cyclohexyl ester, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



IT **73386-53-5P 73388-28-0P**

(prepn. of)

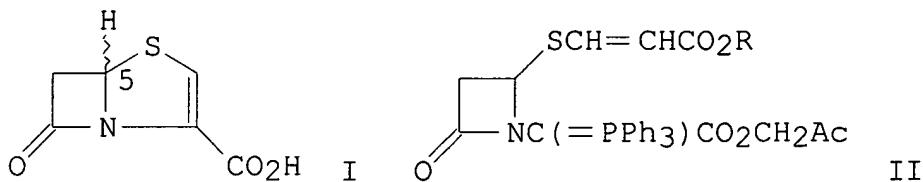
L9 ANSWER 7 OF 10 ZCA COPYRIGHT 2006 ACS on STN

92:22429 The penems, a new class of .beta.-lactam antibiotics. 4.

Syntheses of racemic and enantiomeric penem carboxylic acids.

Pfaendler, H. R.; Gosteli, J.; Woodward, R. B. (Woodward Res. Inst., Basel, CH-4002, Switz.). Journal of the American Chemical Society, 101(21), 6306-10 (English) 1979. CODEN: JACSAT. ISSN: 0002-7863.

GI



AB Racemic and enantiomeric penem-3-carboxylic acids I were prep'd. from 4-acetoxy-2-azetidinone via the phosphoranes II [R = Me, (-)-menthyl], which underwent successive ozonolysis and intramol. Wittig reaction to give I ester derivs. (5R)-I is bactericidally active.

IT **72118-54-8P**

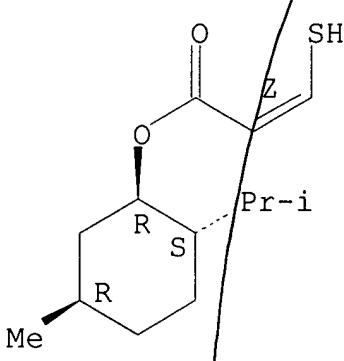
(prepn. and reaction of, with acetoxyazetidinone)

RN 72118-54-8 ZCA

CN 2-Propenoic acid, 3-mercaptop-, 5-methyl-2-(1-methylethyl)cyclohexyl ester, sodium salt, [1R-[1.alpha.(Z),2.beta.,5.alpha.]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry as shown.



● Na

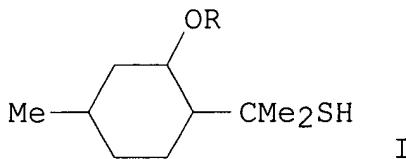
IT **72118-54-8P**

(prepn. and reaction of, with acetoxyazetidinone)

L9 ANSWER 8 OF 10 ZCA COPYRIGHT 2006 ACS on STN

85:5911 p-Menthane derivatives. Lamparsky, Dietmar; Schudel, Peter (Givaudan, L., et Cie. S. A., Switz.). Patentschrift (Switz.) CH 573906 19760331, 3 pp. (German). CODEN: SWXXAS. APPLICATION: CH 1975-2159 19711005.

GI



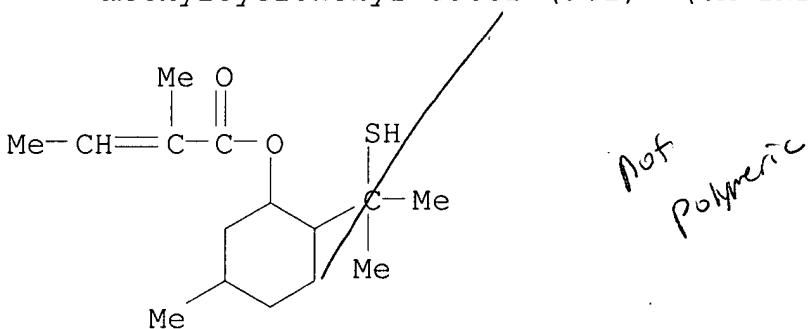
AB The esters I [R = PrCO, isovaleroyl, EtCHMeCO, (E)-MeCH:CMeCO, formyl], useful as flavorants and odorants, were prep'd. by esterification of the alc. with the acid anhydride or chloride in the presence of pyridine.

IT **38462-19-0P**

(prepn. of, for flavorants and odorants)

RN 38462-19-0 ZCA

CN 2-Butenoic acid, 2-methyl-, 2-(1-mercaptopropano-1-methylethyl)-5-methylcyclohexyl ester (9CI) (CA INDEX NAME)

IT **38462-19-0P**

(prepn. of, for flavorants and odorants)

L9 ANSWER 9 OF 10 ZCA COPYRIGHT 2006 ACS on STN

78:110476 Influence of substituents on preparation and tautomerism of open-chain .beta.-thio keto esters. Structure determination by NMR and infrared spectroscopy. Duus, F. (Dep. Chem., Aarhus Univ., Aarhus, Den.). Tetrahedron, 28(24), 5923-47 (English) 1972. CODEN: TETRAB. ISSN: 0040-4020. OTHER SOURCES: CASREACT 78:110476.

GI For diagram(s), see printed CA Issue.

AB The acid-catalyzed reactions of 36 .beta.-keto esters, RCOCHR₁CO₂R₂ (I), with H₂S were studied. Passing H₂S and HCl at -60.degree. or higher temps. through I (R₁ = H) in MeCN or EtOH gave tautomers of RCSCHR₁CO₂R₂ (II), whereas .alpha.-substituted I gave gem-dithiols, RC(SH)₂CHR₁CO₂R₂, or II depending on R₁ and the reaction conditions. Alkyl halides and II Tl(I) salts gave S-alkylation. NMR and ir showed that the .beta.-thioxo esters II (R₁ = H) exist as the

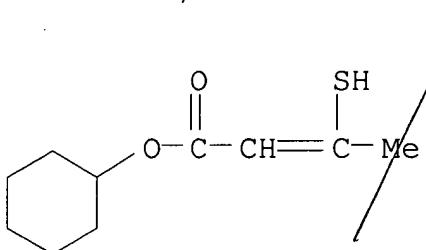
intramol. H-bonded cis-enethiol tautomers (III). The .alpha.-substituted esters exist as approx. 1:1 mixts. of the cis- and trans-enethiols, due to steric crowding. NMR chem. shifts as indicators of intramol. H-bonding and the long-range through-bond and through-space couplings involving enethiolic protons were discussed.

IT **40553-18-2P**

(prepn. of)

RN 40553-18-2 ZCA

CN 2-Butenoic acid, 3-mercaptop-, cyclohexyl ester (9CI) (CA INDEX NAME)



IT **40553-18-2P**

(prepn. of)

L9 ANSWER 10 OF 10 ZCA COPYRIGHT 2006 ACS on STN

77:114601 8-Mercapto-3-(acyloxy)-p-menthanes. Lamparsky, Dietmar; Schudel, Peter (Givaudan, L., et Cie S. A.). Ger. Offen. DE 2152015 19720531, 14 pp. (German). CODEN: GWXXBX. APPLICATION: DE 1971-2152015 19711019.

GI For diagram(s), see printed CA Issue.

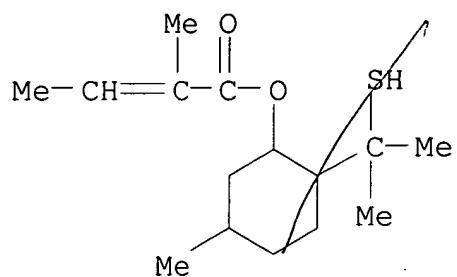
AB Six title compds. [I, R = Me(II), Pr, CH₂CHMe₂, CHEtMe, H, or CMe:CHMe], which were used as odors or flavors, were prep'd. by reaction of 8-mercапто-3-hydroxy-p-menthane (III) with the appropriate anhydrides or acid chlorides. Thus, hydrogenation of 8-mercапто-3-oxo-p-menthane with LiAlH₄ or NaBH₄ gave 80 or 70% III, resp. Reaction of III with Ac₂O in the presence of pyridine .apprx.12 hr at 0.degree. gave II.

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CN 2-Butenoic acid, 2-methyl-, 2-(1-mercaptop-1-methylethyl)-5-methylcyclohexyl ester (9CI) (CA INDEX NAME)



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(prepn. of)